

two mm.; amount of recurvature of beak of ventral valve, sixteen mm.

The only locality at which this species is known to the writer to have been certainly found *in place*, is in a light brownish yellow dolomitic limestone at the foot of the Grand Rapids of the Saskatchewan, where a number of fine specimens were collected by Mr. Tyrrell in 1890. Boulders containing it have been found at several localities in Manitoba and elsewhere in the central portion of the Dominion. It is almost certainly the shell referred to by Sir John Richardson as a "*Pentamerus*, very like *P. Knightii*," which was gathered by Dr. Bigsby "in 1823" on the Lake of the Woods and presented by him to the British Museum,¹ as specimens of the shell which I here call *P. decussatus* have since been collected from boulders on the south west shores of that lake by Dr. G. M. Dawson in 1873 and by Dr. A. C. Lawson in 1884. Other localities at which the species has been obtained from boulders are as follows:—Nelson River, about sixty miles above its mouth, Dr. R. Bell, 1879; Lower Fort Garry, Dr. R. Bell, 1880; Kenogami River, six miles above the mouth of the Bagut-chewan, Dr. R. Bell, 1886. Mouth of the Fairford River and Steep Rock Island, Lake Manitoba, J. F. Whiteaves, 1888. North east side of Lake Winnipegosis and Red Deer River near its mouth, J. B. Tyrrell, 1889; Virden, Manitoba, C. N. Bell, 1889.

In Appendix No. 1 to Franklin's "Narrative of a Second Expedition to the Shores of the Polar Sea, in the years 1825, 1826 and 1827," Sir John Richardson says that "Mr. Sowerby determined a shell, occurring in great abundance in the strata at Cumberland House" . . . "to be the *Pentamerus Aylesfordii*," which is regarded by Dr. Davidson as a synonym of *P. Knightii*. Although Cumberland House is 135 miles farther up the Saskatchewan than the locality at which Mr. Tyrrell obtained *P. decussatus* in place, it is by no means improbable that the specimens which Mr.

¹ Journal of a Boat Voyage through Rupert's Land and the Arctic Sea, vol. 1, foot note to page 62. See also *Ib.*, vol. ii, p. 197.